Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Division

Name of Work: Improvements to balance roads and drains at Ananthpura Villagein Chowdeshwari ward -02 of Yelahanka Sub division

							Estimate Cost		20.00 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22) & (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
	Basic Rate	186.00							
	Loading And Unloading	118.00							
	Sub Total	304.00							
	Area Weightage 10%	30.40							
	Total Rate	334.40							
	RCC Drain								
	Ananthpura Village	1	148.00	1.10	1.00	162.80			
						162.80	Cum	334.40	54,440.32
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR								
	Basic Rate	5554.00							
	Area Weightage 10%	555.40							
	Total Rate	6109.40							
	RCC Drain								
	Ananthpura Village	1	148.00	1.10	0.15	24.42			
	CC Road								
	Ananthpura Village	1	53.00	5.00	0.15	39.75			
						64.17	Cum	6109.40	392040.20
3	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22)(Issue rate on 07-07-22)								
	Basic Rate	92170.00							
	Area Weightage 10%	9217.00							
	Total Rate	101387.00							
	For RCC Drain, 60kg/Cum	1	46.62	60.00		2797.20			
						2797.20			
						2.80	Tn	101387.00	283599.72
4	Providing and laying in position **Reinforced cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm** nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) Apendx I, V-I P.No-								
	Basic Rate	5968.00							
	5% Centring	298.40							
	Sub Total	6266.40							
	Area Weightage 10%	626.64							

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total Rate	6893.04							
	RCC Drain Raft								
	Ananthpura Village	1	148.00	0.90	0.15	19.98			
	RCC Drain Wall								
	Ananthpura Village	2	148.00	0.15	0.60	26.64			
						46.62	Cum	6893.04	321353.52
5	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading								
	Basic Data Rate	2072.00							
	Drain Top Covering Slab								
	Ananthpura Village	1	148.00	0.90		133.20			
	Missing/damage Slabs	35	0.60	0.90		18.90			
						152.10	Sqm	2072.00	315151.20
6	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)								
	Basic Rate	65.00							
	Area Weightage 10%	6.50							
	Total Rate	71.50							
	CC Road								
	Ananthpura Village								
	Cross Rd-1	1	53.00	5.00	0.25	66.25			
						66.25	Cum	71.50	4,736.88
7	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 **M30 (Grade)**, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-138,I No-20.29, KPWD SR 2021-22). (Issue rate on 07-07-22)								
	Basic Rate	6512.00							
	Area Weightage 10%	651.20							
	Total Rate	7163.20							
	CC Road								
	Ananthpura Village								
	Cross Rd-1	1	53.00	5.00	0.15	39.75			
						39.75	Cum	7163.20	284737.20
8	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
	Basic Rate	12.00							
	8KM Lead = 12*8	96.00							
	Area Weightage 10%	9.60							
	Total Rate	105.60							
	Qty frm Item No-1		162.8	1.28		208.38			
	Qty frm Item No-6		66.3	2.10		139.13			
						347.51	t.Km	105.60	36,696.95

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							Total Construction Cost	1692755.98
							18% GST for Construction Cost	304696.08
							Sub Total	1997452.06
							Utility Shifting,Miscellaneous and Rounding off	2,547.94
							GRAND TOTAL	2000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates

Assistant Engineer,
Ward No-02
BBMP Bangalore

AE-02

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For 20.00 Lakh
Head of A/C P-3726
CER NO : Sk Dt: 22/8/2022

TA

CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakh
Rupees Twenty lakhs only
Under P-3726.
Zonal Public Works.
Registered as CE ( ) No. 99
Subject to conditions contained in enclosed memo EE ( ) No. 32 /9/
Dt. 22/8/2022 Estimate A/ Sanctioned
BBMP/EE/YNK-DTS/32/22-23 No. 32
Dated 22/8/2022 Rs. 20.00 Lakh

Executive Engineer